Free

2013

Amateur Radio

Special Events & Information Guide

PUGET SOUND

(AND SURROUNDING AREA)

K7LED

146.82 MHz & 224.12 MHz

info@mikeandkey.org

www.mikeandkey.org

Preparing For Public Service Communications

1. Dress in layers of clothing, in case the weather changes.
2. Bring your medication, sunscreen, sunglasses, water bottle, etc.
3. Bring extra batteries for your radio.
4. Report your arrival in advance on the talk-in frequency, so you can be directed to convenient parking.
5. Bring a pen and small note pad to jot down information.
6. Speaker mikes and headsets are very helpful. Don't use vox, as it can pick up crowd noise and tie up the frequency.
7. If you have an extra radio, bring it along in case another volunteer has none.
8. You're part of a team, Net Control will answer your questions.
9. Have fun and feel good about helping your community.

The Amateur's Code

The Radio Amateur is:

CONSIDERATE...never knowingly operates in such a way as to lessen the pleasure of others.

LOYAL...offers loyalty, encouragement and support to other amateurs, local clubs, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.

PROGRESSIVE...with knowledge abreast of science, a well-built and efficient station and operation above reproach.

FRIENDLY...slow and patient operating when requested; friendly advice and counsel to the beginner; kindly assistance, cooperation and consideration for the interests of others. These are the hallmarks of the amateur spirit.

BALANCED...radio is an avocation, never interfering with duties owed to family, job, school or community.

PATRIOTIC...station and skill always ready for service to country and community.

The original Amateur's Code was written by Paul M. Segal, W9EEA, in 1928.

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IC-7600 All Mode Transceiver

• 100W HF/6m Transceiver, gen cov. receiver • Dual DSP 32 bit • Three roofing filters- 3, 6, 15khz • 5.8 in WQVGA TFT display • Hi-res real time spectrum scope

IC-9100 The All-Round Transceiver

• HF/50MHz 144/430 (440) MHz and 1200MHz*coverage • 100W on HF/50/144MHz, 75W on 430 (440) MHz, 10W on 1200MHz*

IC-7000 All Mode Transceiver

• 160-10M/6M/2M/70CM • 2x DSP • Digital IF filters • Digital voice recorder • 2.5" color TFT display

IC-2820H Dual Band FM Transceiver

• D-STAR & GPS upgradeable 2M/70CM • 50/15/5W RF output levels • RX: 118-173.995, 375-549.995, 810-999.99 MHz** • Analog/digital voice with GPS (optional UT-123) • 500 alphanumeric memories

IC-V8000 2M Mobile Transceiver

• 75 watts • Dynamic Memory Scan (DMS) • CTCSS/DCS encode/decode w/tone scan • Weather alert • Weather chl scan • 200 alphanumeric memories

ID-51A VHF/UHF Dual Band Trcvr

• 5/2.5/1.0/0.5/0.1W Output • RX: 0.52–1.71, 88–174, 380-479 MHz** • AM/FM/FM-N/WFM/DV • 1304 Alphanumeric Memory Chls • Integrated GPS • D-STAR Repeater Directory • IPX7 Submersible

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anaheim@hamradio.com

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burbank@hamradio.com

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(510) 534-5757
oakland@hamradio.com

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(858) 560-4900
sandiego@hamradio.com

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sunnyvale@hamradio.com

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(302) 322-7092
delaware@hamradio.com

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(503) 598-0555
portland@hamradio.com

DENVER, CO
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denver@hamradio.com

PHOENIX, AZ
(602) 242-3515
phoenix@hamradio.com

ATLANTA, GA
(770) 263-0700
atlanta@hamradio.com

WOODBRIDGE, VA
(703) 643-1063
virginia@hamradio.com

SALEM, NH
(603) 898-3750
salem@hamradio.com

*Optional UX-9100 required. **Frequency coverage may vary. Refer to owner's manual for exact specs.

WHY BE A HAM RADIO OPERATOR?

With the Internet, wireless PDAs, cell phones, CB radio and Family Radio Service, what's the point of Amateur Radio?

Amateur Radio has always been on the cutting edge of technology. Today, we use Earth-Moon-Earth bounce, meteor scatter, amateur satellite, digital modes, digipeaters (automated repeaters), FM repeaters (thousands in the United States), Internet-linked repeaters, amateur TV and many other forms of communication. The possibilities are endless.

In public and emergency services, Amateur Radio has supplied the most reliable communications. During the hurricanes Katrina/Rita disasters, hundreds of Hams worked for many weeks because commercial communications were destroyed, overloaded or incompatible. During the Shuttle Columbia disaster, Hams were called out to search for debris. Using portable FM repeaters, Hams were the only reliable form of communication. Today, Ham Radio is more vital, exciting and needed than ever.

HOW YOU CAN BECOME A HAM RADIO OPERATOR

All hobbies involve learning new skills. To operate on the Amateur Radio bands, you must first master the basics, pass a test and receive a license from the Federal Communications Commission. The amateur community is very active in helping people become new Hams. Two- or three-day classes and testing sessions are available in most areas. There are also self-study books and online programs. Still think you can't do it? Well, a 7-year-old Oregon girl passed the test for the highest class license recently.

As of 2007, there is no longer a Morse code requirement for any license class. There are three levels of licenses with progressive privileges. The first level is Technician, which allows mostly local communications. If your interests take you further, you can earn a General or Extra class license for more priveleges and world-wide communications.

Your local Amateur Radio club will help you get into a study course and mentor you in your new hobby. This book has a list of Ham Radio clubs and examination locations. Our Web page (www.mikeandkey.org) and the ARRL Web page (www.arrl.org) give more information on classes, test locations and Ham Radio in general. Come enjoy the expanding world of Ham Radio. The sky is **NOT** the limit!

NETS IN THE PUGET SOUND REGION

Day	Time	Freq	Rptr Call	Name / Group / Description
Daily	1730	146.820	K7LED	Puget Sound NTS Net
	2000	28.630	(HF)	Chief Seattle Chapter of 10X Intl. (M, Th on 28.43)
M - F	0545	145.330	K7NWS	Northwest Weather Net
	1645	145.330	K7NWS	Northwest Weather Net
SUN	1900	146.840	WA7FW	Federal Way D-STAR/D-RATS Practice Net
	1900	28.330	(HF)	Kitsap County Alt. Comm. System (ACS)
	1900	28.385	(HF)	Vashon-Maury RC - CW Net (SSB @ 1930, 1st Sun)
	1900	145.390	W7EOC	Grays Harbor Co. Aux. Em. Comm. (& BeachNet rptrs.)
	1900	147.340	K6RFK	NW Washington LDS Stakes ERC Net
	1900	146.740	K7SKW	Whatcom County ARES Emergency Services Net
	1900	442.300	W7SRG	City of Sammamish ARES/RACES
	1915	145.470	K7CPR	District 3 ARES/RACES
	1930	443.725	WE7SCA	ESCA RACES (Sno-King cities)
	1930	147.040	WA7FW	Federal Way Amateur Radio Club
	1930	146.860	W7AVM	Island County Amateur Radio Club
	1930	145.490	K7LWH	Kirkland ARES
	1930	145.430	KD7WDG	Kitsap County Alt. Comm. System (ACS)
	1930	443.500	W7VMI	Vashon-Maury Island RC - ARES (except 1st Sun.)
	2000	147.080	W7WWI	King County ARES/RACES
	2000	28.375	(HF)	Radio Club of Tacoma (Ten Meter Social Net)
	2100	146.720	N7SK	Mason County ARES/RACES
	2100	146.820	K7LED	Renton LDS Stakes ERC Net
	2200	145.330	K7NWS	Northwest Astronomy Net
MON	1730	3.985	(HF)	WSEN - ARES (Winter/poor band conditions)
	1830	3.985	(HF)	WA State Emergency Net (WSEN) - ARES (alt. 7.245)
	1830	441.800	W7AW	West Seattle Amateur Radio Club
	1900	146.960	WW7PSR	Seattle Auxiliary Communications Service (ACS)
	1930	146.960	WW7PSR	Puget Sound Repeater Group (PSRG)
	1930	442.825	WB7AHT	Shoreline ACS (City of Shoreline)
	2000	147.260	W7DG	Cowlitz County Auxiliary Communications Service
	2000	444.550	WW7SEA	Puget Sound Digital Hams Practice Net
	2000	147.570	(simplex)	Stanwood-Camano ARES
	2015	147.360	W7PIG	Stanwood-Camano Amateur Radio Club
	2030	24.980	(HF)	Stanwood-Camano ARC (informal net, also Wed.)
TUE	1830	145.150	W7JCR	Jefferson County ARES/RACES (casual net)
	1900	441.400	NT7H	Thurston Co. ARES/RACES (also 147.36 & 224.46)
	1930	147.280	W7DK	Radio Club of Tacoma
	1930	441.400	NT7H	Olympia Amateur Radio Society (also 147.36 & 224.46)
	2000	147.080	W7WWI	American Red Cross - Seattle area
	2000	147.260	KF7NPL	Maple Valley Amateur Radio Club (146.54 simplex after)
	2000	146.920	WB7VYA	Snohomish County ACS/ARES
WED	0900	145.150	W7JCR	Jefferson County ARES/RACES (formal net)
	1900	145.190	N7UQA	Skagit County ARES
	2000	145.250	N7JN	San Juan County Amateur Radio Society
	2030	24.980	(HF)	Stanwood-Camano ARC (informal net, also Mon.)
THU	1900	3.8225	(HF)	ARES Region One Informal Net
	1900	147.340	K6RFK	Bothell-area Amateur Radio Emergency Comm.
	1900	146.960	WW7PSR	Western Washington Amateur Television Society
	1930	147.340	NM7R	Pacific County Emergency Services (& BeachNet rptrs.)
	2000	443.550	W7SRZ	Western WA Medical Services Net (1st Th 146.98)
FRI	1900	146.660	WA7ST	SeaTac Amateur Radio (STAR)
SAT	0900	3.985	(HF)	WA State Emergency Net (WSEN) - ARES (alt. 7.245)

DSTAR REPEATERS IN WESTERN WASHINGTON

144-148MHz Voice & Data 440MHz Voice & Data 1.2GHz Voice & Data 1.2GHz Digital Data DRATS Digital Data

Output	+ / -	Call-Sign	Gateway	Location	Sponsor
145.130	-	K7LWH_ _C	Y	BELLEVUE	K7LWH
145.290	-	N7IH_ _ _C	Y	BELLEVUE	ICOM
146.005	+	NW7DR_ _C	Y	EDMONDS	K7VE
146.500	+1MHz	KF7CLD_C	Y	BURIEN	N7LMT
146.700	-	WC7SO_ _C	Y	BELLINGHAM	WCSO-ACS
146.840	-	WA7FW_ _C	Y	FEDERAL WAY	FWARC.org
146.900	-	N7JN_ _ _C	Y	SAN JUAN ISL.	N7JN
440.0125	+	NW7DR_ _B	Y	EDMONDS	K7VE
440.275	+	KF7BFS_B	Y	SEATAC #46	STAR
440.325	+	NR7SS_ _B	Y	GRANITE FALLS	SNOH-ACS
440.350	+	WA7DEM_B	Y	CLEAR VIEW	SNOH-ACS
440.425	+	KF7BFT_B	Y	TUKWILA #52	KF7BFT
440.475	+	WC7SO_ _B	Y	BELLINGHAM	WCSO-ACS
440.7625	+	W7ACS_ _B	Y	SEATTLE	W7ACS
441.2125	+	W7RNK_ _B	Y	NEWCASTLE	W7RNK
442.3625	+	K7TUL_ _B	?	TULALIP	Tulalip-EM
442.675	+	KF7NPL_B	Y	MAPLE VALLEY	MVERA
443.000	+	N7JN_ _ _B	Y	SAN JUAN ISL.	N7JN
443.000	+	K7LWH_ _B	Y	BELLEVUE	K7LWH
443.275	+	K7ISQ_ _B	Y	ISSAQUAH	K7ISQ
443.425	+	KF7CLD_B	Y	BURIEN	N7LMT
443.575	+	N7IH_ _ _B	Y	BELLEVUE	ICOM
443.850	+	WA7FW_ _B	Y	FEDERAL WAY	FWARC.org
444.5625	+	W7NPC_ _B	?	BAINBRIDGE ISL.	W7NPC
444.6375	+	WA7HJR_B	Y	TIGER MTN.	WA7HJR
444.9125	+	WR7KCR_B	Y	CLE ELUM WA.	WR7KCR
1248.150	DD	N7IH simplex	RPS	BELLEVUE	ICOM
1249.250	DD	WA7FW simpl	Y	FEDERAL WAY	FWARC.org
1290.000	-20	K7LWH_ _A	Y	BELLEVUE	K7LWH
1290.100	-20	WA7FW_ _A	Y	FEDERAL WAY	FWARC.org
1294.000	-20	N7IH_ _ _A	Y	BELLEVUE	ICOM

DSTAR Digital Data on DRATS @ **wa7fw.dstargateway.org port 9000**

DSTAR List Provided Courtesy of: http://HamShare.com

PUGET SOUND REPEATERS

Output	Input	Tone	Callsign	Location [Group]
53.090	51.390	100	W7UMH	Lyman Hill, Skagit County
53.150	51.450	100	K7CR	Tiger Mountain West
145.190	144.590	127.3	N7GDE	Lyman Hill, Skagit County [RASC]
145.250	144.650	131.8	N7JN	San Juan County [SJCARS]
145.330	144.730	179.9	K7NWS	Tiger Mountain West [BEARS]
145.370	144.770	136.5	W7AAO	Grass Mtn. [Pierce Co. ARES/RACES]
145.430	144.830	179.9	KD7WDG	Silverdale [Kitsap County ACS]
145.470	144.870	100	K7CPR	Capitol Peak (Olympia) [CPRA]
145.490	144.890	103.5	K7LWH	Kirkland
146.620	146.020	103.5	WW7RA	Gold Mountain, Kitsap Co. [WWRA]
146.660	146.060	103.5	WA7ST	SeaTac [Highline ARC]
146.720	146.120	103.5	N7SK	Shelton [Mason Co. ARC]
146.740	146.140	103.5	K7SKW	Mt. Constitution, Orcas Island
146.760	146.160	100	W7FEL	Striped Pk. [Clallam Co. ARC]
146.760	146.160	103.5	WA7FW	Federal Way [Fed. Way ARC]
146.820	146.220	103.5	K7LED	Tiger Mtn. East [Mike & Key ARC]
146.860	146.260	127.3	W7AVM	Oak Harbor [Island County ARC]
146.900	146.300	103.5	W7SRZ	Seattle [WWA Med. Srvcs. Team]
146.920	146.320	123	WB7VYA	Mt. Pilchuck
146.960	146.360	103.5	W7VHY	Seattle (tone not required)
147.040	147.640	103.5	WA7FW	Federal Way [Fed. Way ARC]
147.080	147.680	103.5	W7WWI	Cougar Mountain
147.180	147.780	103.5	WA7LAW	Everett [Snoh. Co. Hams Club]
147.240	147.840	123.8	K7SYE	Auburn [Auburn Valley Repeater Group]
147.280	147.880	103.5	W7DK	Tacoma [RC Tacoma]
147.340	147.940	100	K6RFK	Woodinville
147.360	147.960	127.3	W7PIG	Stanwood-Camano Amateur Radio Club
223.980	222.380	100	N7NW	Tiger Mountain East
224.120	222.520	103.5	K7LED	Tiger Mtn. East [Mike & Key ARC]
224.680	223.080	103.5	W7SRZ	Seattle
441.400	446.400	103.5	NT7H	Crawford Mountain [Olympia ARS]
441.800	446.800	141.3	W7AW	West Seattle [West Seattle ARC]
442.650	447.650	103.5	WW7RA	Gold Mountain, Kitsap Co. [WWRA]
442.825	447.825	103.5	WB7AHT	Shoreline [Shoreline ACS]
442.950	447.950	103.5	WA7FW	Federal Way [Fed. Way ARC]
443.100	448.100	103.5	KE7WMH	SeaTac [Highline ARC]
443.500	448.500	103.5	W7VMI	Vashon-Maury Island [VMIRC]
443.550	448.550	103.5	W7SRZ	Seattle [WWA Med. Srvcs. Team]
443.925	448.925	100	W7FLY	Mukilteo [BEARONS]
444.300	449.300	103.5	WA7WKT	Buck Mountain
444.375	449.375	203.5	AJ7JA	Seattle [Sea. Int'l. Japanese ARC]
444.550	449.550	141.3	WW7SEA	Seattle [Seattle ACS]

Note: The use of a repeater is a privilege extended by the owner, not a requirement. There are specific FCC rules and regulations with regard to the usage of repeaters, and of all ham radio conversations carried on the airwaves. Violation of these regulations can be severe when abused, and will be strictly enforced by the FCC with the support of all Ham Radio Clubs in the Puget Sound Region.

Date/Time	City	Exam Location
2nd Tuesday 7pm	Tacoma	1249 S Washington St
2nd Saturday 10am	Shelton	PUD #3, Aud. A, 2621 Johns Prairie Rd
2nd Sat 10am, even months	Bellingham	Nelson Driving School, 2300 James St
3rd Mon 7pm, odd months	Stanwood	Snohomish Co. PUD, 9124 271st St SW
3rd Wed 6pm (except Dec)	Olympia	Red Cross, 2618 12TH Ct SW
3rd Saturday 12:30pm	Renton	Salvation Army HQ, 720 S Tobin St
4th Wed 9am, odd months	Everett	Boeing Everett Rec Ctr, Seaway Blvd
4th Sat 9am, odd months	Poulsbo	Fire Dist. 18 Bldg, 911 NE Liberty Road
4th Sat 10am (except Dec)	Everett	1401 Poplar St
Apr 18 (see web for later)	Redmond	please email or check website for locations

For up-to-date information on license classes and exam opportunities, please see the Mike & Key web site.
www.mikeandkey.org/education.htm

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RADIO EXAMS

Contact	Call	Phone	Email Address or Web Page
John	AC7WW	253-475-5854	ac7ww@w7dk.org
Dave	N7HT	253-756-5146	dbbrooks@hotmail.com
			www.mbarc.org/home/license-exams
Tom	W7TG	360-618-2849	w7tg@hughes.net
Klaus	AC7MG	360-280-2428	oars-ve@comcast.net
Scott	AG7T	425-788-0452	ag7t@arrl.net
Ann		425-742-6176	annwright@gmail.com
Don	NS7Q		www.nkarc.org
Loren	KK7M	425-335-5158	Loren_kk7m@msn.com
Scott	N7SS	microhams.com	n7ss@arrl.net

Information on license classes and exam opportunities can also be found at the ARRL.
www.arrl.org/find-an-amateur-radio-license-class
www.arrl.org/find-an-amateur-radio-license-exam-session

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Club Name	Location	Phone
Boeing Employees ARS	Museum of Flight, 9404 East Marginal Way S., Seattle	see web
Boeing North - BEARONS	Everett Boeing Activities Center, 6400 36th Ave W	425-342-7674
Cascade Radio Club	PUD Auditorium, Everett	425-337-5053
Chehalis Valley ARS	Dist. 5 Training Bldg, 115 E Washington St, Napavine	
Clallam County ARC	Port Angeles Fire Dept, 5th & Laurel St, Port Angeles	360-452-4672
Clallam County Ares/Races	Clallam Co. CH, 223 East 4th St., Pt Angeles, WA	see web
Federal Way ARC	Fed. Way Multi Svc Ctr, 1200 S 226th St, Federal Way	see web
Highline ARC	SeaTac Station 34, 2929 S. 200th St., Seattle, WA	see web
Issaquah ARC	75 NE Creek Way, behind police station	425-392-8497
Lk Washington Ham Club	Kirkland Fire Station #22 or #26 (check website)	lwhc@k7lwh.org
Maple Valley ARC	meeting varies - check web site	
Mason County ARC	Alpine Way Retirement Apartments, Shelton, WA	360-426-7486
MicroHams	Building 44 Room 2200 Microsoft Campus, Redmond	see web
Mike & Key ARC	Salvation Army, 720 South Tobin Street, Renton, WA	253-631-3756
Mount Baker ARC	Tillicum House, Pioneer Village, Ferndale	
North Kitsap ARC	CK Fire Stn 51, 10955 Silverdale Way, NW, Silverdale	see web
NWAPRS	NW Auto Position Reporting System (Packet Club)	see web
Olympia Amateur Radio Soc.	Red Cross Building, 2618 12th CT SW, Olympia	360-753-1493
Pacific Co. ARC	Pacific County, WA	360-665-2438
Puget S. Antique Radio Assn	Masonic Rite Temple 1207 N 152nd St Seattle, WA	see web
Puget Sound Repeater Group	Salmon Bay Café, 5109 Shilshole Ave NW, Seattle	see web
Radio Amateurs of Skagit Co.	Skagit Valley Hospital, Cascade Conf Room	see web
Radio Club of Redmond	Panera Bakery, 17262 Redmond Way, Redmond, WA	see web
Radio Club of Tacoma	PC LibADM Bldg, 112th ST E & Waller Rd, Parkland	see web
San Juan County ARS	see website	see web
Snohomish Co. Hams Club	Providence Everett Medical Center, 1321 Colby Ave	see web
Snoqualmie Valley ARC	Duvall Fire Station	
Stanwood-Camano ARC	see website (location varies depending on month)	
Tukwila Emerg. Comm. Team	Tukwila Fire Station #51, 444 Andover Park E, Tukwila	see web
W Washington ATV Society	Fire Station #9, 12412 SE 69th Way, Newcastle, WA	see web
W Washington DX Club	Robb's 125th Street Grill, N 125th St & Aurora Ave N	see web
West Seattle ARC	Heartland Café, 4210 SW Admiral Way, Ste A, Seattle	see web

All information is believed to be correct as of press time.
For up-to-date information please see the Mike & Key web site.

www.mikeandkey.org

CONTACTS

Contact	Callsign	When	Email Address or Web Page
see web		1st Sat 8:30am, exc. Jul/Aug/Sep	http://www.k7nws.com/
Mark	KN7T	2nd Sat 10 am	http://snocohams.net/BEARONS.html
Roger	WN7M	3rd Wed 7 pm exc. Dec.	www.cascaderadioclub.org
see web		1st Wed 7:30 pm	www.cvars.org
Chuck	N7BV	2nd Wed, 7pm	http://www.olyham.net/
see web		1st Tue 7 pm	http://www.olyham.net
see web		2nd Thurs 7 pm	www.fwarc.org
see web		4th Sat, 10am exc Dec	www.highlinearc.org
Rod	WE7X	1st Wed 7:15 pm	www.w7bi.com
Don	W7OXR	2nd Sat 10 am exc July & Aug	http://lakewashingtonhamclub.org
		4th Sat 10 am	www.kc7key.org
Leah	WA7LC	2nd Sat 8:30 am	www.mc-arc.org/
see web		3rd Tue 6:00 pm	www.microhams.com
Mike	N7WA	3rd Sat 10 am	www.mikeandkey.org
		2nd Tue, 7pm exc July & Aug	www.mbarc.org/
David	N7ORM	3rd Sat 10 am	contact@nkarc.org www.nkarc.org
Dave	K7GPS	Summer Gathering, after Labor Day	www.nwaprs.info
Klaus	AC7MJ	3rd Wed, 7pm, except Dec	www.olyham.org
Dick	AD7AF	2nd Saturday 9 AM	www.qsl.net/w7rdr
see web		3rd Sun, Noon (2nd Sun Jun, Dec)	www.eskimo.com/~hhagen/psara/
see web		Brd meeting, 3rd Sat, 1pm	www.psrg.org
see web		2nd Fri, 7 pm	www.rasconline.org
see web		3rd Sat at 8 am	www.n7ke.net
see web		2nd/4th Wed, 7:30 pm	www.w7dk.org
Mike	N7TLL	see web	http://sjcars.org/blog/join
see web		4th Sat, 8 am	www.wa7law.com
Brian	K7RWB	1st Thursday, 7pm	www.snovalleyarc.org
Victor	N7KRE	3rd Thurday, at 7 pm	www.scarcwa.org
see web		1st Wed 7 pm	www.tukwilaradioclub.org
see web		3rd Sat, 12:30 pm	www.qsl.net/ww7ats/
see web		2nd Tue, 6:30 pm	www.wwdxc.org
see web		3rd Sun of each month at 9:30 am	www.westseattlearc.org

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For up-to-date information please see the Mike & Key web site.
www.mikeandkey.org

2013 PUBLIC SERVICE EVENTS

Date	Event Name	Location	Contact	Call	Phone	Email
Mar 16	St. Patrick's Day Parade	Seattle	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Apr 13	Daffodil Parade(s) *	Tac.-Puyallup-Sumner-Orting	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Apr 13	Walk MS: Snohomish County	Tulalip (Quil Ceda)	Dan	KC7UVK	425-776-3722	dan@esca1.com
Apr 14	Walk MS: Seattle	Husky Stadium	Dan	KC7UVK	425-776-3722	dan@esca1.com
Apr 27	Holland Happening Parade *	Oak Harbor	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
May 4	Husky Crew Races	UW / Montlake Cut	Dick	WA7NIW	425-828-9791	wa7niw@arrl.net
May 4	YMCA - 10K	Capitol Way, Olympia	Lee	Ki7SS	360-866-0236	ki7ss@arrl.net
May 11	ADA Tour de Cure Ride	Redmond - Monroe	Dale	KC7VLM		huskyfirstaid@yahoo.com
May 17	Syttende Mai (Norwegian Ind. Day)*	Ballard	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
May 19	Capital City Marathon	Olympia	Lee	Ki7SS	360-866-0236	ki7ss@arrl.net
My31-Jn2	WA Special Olympics	Joint Base Lewis McChord	John	KC7OLB	253-302-7144	caverlyj@gmail.com
Jun 8	Flying Wheels Century Ride	Marymoor Park, Redmond	Alan	KD7KUS	425-883-0405	AlanBJones@frontier.com
Jun 15	Strawberry Festival Parade *	Marysville	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Jun 21-23	Olympus Road Rally	SW Washington	Lee	Ki7SS	360-866-0236	ki7ss@arrl.net
Jun 22-23	**"CQ FIELD DAY"**	**EVERYWHERE**				
Jun 29	Rotary Auction, Woodward School	Bainbridge Island	Craig	AAC7BV	206-780-5585	CraigH@Blarg.net
Jul 6	Wallingford Kiddies Parade *	Seattle	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Jul 14	Cornucopia Days Parade *	Kent	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Jul 14	See Jane Run Half Marathon & 5K	Gas Works Park, Seattle	Fran	N7FWZ	425-226-4115	n7fwz@comcast.net
Jul 20	Kla-Ha-Ya Days Parade *	Snohomish	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Jul 20	Lakefair Parade	Olympia	Lee	Ki7SS	360-866-0236	ki7ss@arrl.net
Jul 20	Waterland Festival Parade	Des Moines	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Jul 20	West Seattle Hi-Yu Festival Parade *	Seattle	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Jul 21	Benaroya Res. Inst. Triathlon *	Seward Park, Seattle	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org

Jul 21	Chinatown Seafair Parade*	Seattle	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Jul 21	White Center Jubilee Days Parade *	Seattle	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Jul 24	Greenwood Seafair Parade *	Seattle	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Jul 25	RAMROD Bike Ride	Enumclaw	Fran	N7FWZ	425-226-4115	n7fwz@comcast.net
Jul 26	Tour de Terrace Parade *	Mountlake Terrace	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Jul 27	SEAFAIR TORCHLIGHT PARADE *	Seattle	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Jul 28	CF Cycle For Life	Woodinville	Dan	KC7UVK	425-776-3722	dan@esca1.com
Aug 3-5	Courage Classic Bicycle Tour	Three Cascade Passes	Todd	KD7NPT	253-905-6687	toddkpr@gmail.com
Aug 3	Lake City Pioneer Days Parade *	Seattle	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Aug 10	All Fools Parade *	Woodinville	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Aug 10	Auburn Days Parade *	Auburn	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Aug 10-11	Obliteride (bike ride)	Seattle area	Dave	N7JJD	206-954-7526	dshaw@h4consulting.com
Aug 17	Columbia Winery Run	Woodinville	Khris	KB7FHQ	206-987-6704	khris.laplante@seattlechildrens.org
Aug 18	Danskin Triathlon *	Genesee Park, Seattle	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Aug 24	10K Run + Walk	Seattle Center	Fran	N7FWZ	425-226-4115	n7fwz@comcast.net
Aug 25	Summer Challenge Bike Ride	Bainbridge Island	Craig	AAC7BV	206-780-5585	CraigH@Blarg.net
Sep 7-8	Bike MS: Washington Ride	Skagit, Island & Whatcom	Dan	KC7UVK	425-776-3722	dan@esca1.com
Sep 7	Lighthouse Festival *	Mukilteo	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Sep 28	Autumn Leaf Festival Parade *	Leavenworth	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Oct 5	Salmon Days Parade *	Issaquah	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Nov 9	Veterans Day Parade *	Auburn	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Dec 1	SEATTLE MARATHON	Seattle	Fran	N7FWZ	425-226-4115	n7fwz@comcast.net
Dec 7	Santa Parade *	Auburn	Liz	N7ZXH	206-240-6400	hamsignup@seafairparademarshals.org
Dec 8	Special People Holiday Cruise	Seattle	Dick	WA7NIW	425-828-9791	wa7niw@arrl.net
Feb 23	(2014) Chilly Hilly Bike Ride	Bainbridge Island	Craig	AAC7BV	206-780-5585	CraigH@Blarg.net

All information is believed to be correct as of press time. For up-to-date information please see the Mike & Key Website. **www.mikeandkey.org**

* Go to www.seafairparademarshals.org for schedule changes and to sign up.

2013 NW HAMFESTS

Date	Event and Location	Contact
Feb 23	Ham Days, Grays Harbor ARC - Elma, WA	Les
Mar 17	Burnaby ARC Swap Meet - Surrey, BC	[Website]
Mar 23	MicroHAMS Digital Conference. Redmond, WA	[Website]
Apr 13	Yakima Hamfest - Selah Civic Center - Yakima, WA	Lindsay
Apr 13-14	Communications Academy - Seattle, WA	[Website]
Apr 26-28	Voice of Idaho ARC - Idaho State Convention, Boise, ID	Lynn
May 3-5	EmComm West - Reno, NV	[Website]
May 5	Maple Ridge Swap Meet - Maple Ridge, BC	[Website]
May 6-12	WA State Search & Rescue Conference - Goldendale, WA	[Website]
May 11	Stanwood-Camano ARC Hamfest - Stanwood Middle School	Vic
May 16-19	Pateros AnnualHamRadioCampout/Potluck - Pateros, WA	Roger
May31-Jun2	SEAPAC Hamfest - Seaside, OR	Wayne
Jun 7-9	Wenatchee Hamfest, Apple City ARC - Dryden Gun Club	Jim
Jun 8	KARS HAMFEST, Kootenai ARS - Post Falls, ID	Jim
Jun 8	Port Ludlow ARC Tailgate Swap Meet - Port Ludlow, WA	[Website]
Jul 13-14	SalmonCon, PNW QRP weekend - Valley Camp, North Bend, WA	Wayne
Jul 19-21	4th Annual KUH Pig Roast & Campout - Springdale, WA	[Website]
Jul 20-21	Glacier-Waterton Intl Peace Park Hamfest	[Website]
Jul 20	Coos Co. Radio Club Hamfest & Swapmeet - North Bend, Oregon	
Jul 27	Chehalis Valley ARS Hamfair - Lewis County Fairgrounds	John
Aug 2-4	Pacific Northwest DX Convention - Spokane, WA	[Website]
Aug 10	Northwest Citizen Corps Expo - North Bend, WA	[Website]
Aug 18	Antique Radio Swap Meet - Shoreline, WA	[Website]
Aug 24	Highline Amateur Radio Club (HARC) Swap Fest - 4th Sat in Aug	[Website]
Aug 24	Clark County ARC Swapmeet - Vancouver, WA	[Website]
Sep 6-8	NW APRS Summer Gathering - - Valley Camp, North Bend, WA	Thom
Sep 28	Spokane Hamfest / ARRL WA State Conv. - University High Schl.	Betsy
Sep 30	COMFEST, Delta ARS, Delta, BC	[Website]
Oct 2013	Swaptoberfest, MidValley ARES-Polk Co. Fairgrounds, Rickreall, Or.	Don
Oct 2013	2nd Annual LaGrande Swap Meet and Fox Hunt - La Grande,Or.	[Website]
Oct 11-13	PACIFICON Ham Radio Convention, Santa Clara, CA	[Website]
Oct 12-13	Pacific Northwest VHF Society Conference	[Website]
Oct 19	North Kitsap Amateur Radio Hamfest - Bremerton, WA	[Website]
Oct 19-20	Jamboree On The Air (JOTA)	[Website]
Oct 20 or 27	Federal Way ARC D-Star, Beginners Workshops	Gerard
Nov 2	Federal Way ARC D-Star Workshop	[Website]
Feb 2014	Salem Hamfair & Swapmeet-Polk Co. Fairgrounds, Rickreall, OR	[Website]
Mar 8 2014	Mike & Key ARC Electronics Show & Fleamarket - Puyallup, WA	Mike

Listings sourced from PNW Hamfair webpage at http://www.n7cfo.com/amradio/hf/hf.htm

& CONFERENCES

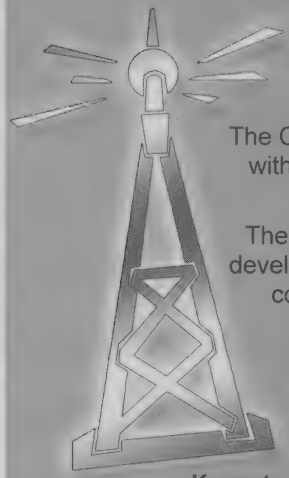
Callsign	Phone	Email	Website
N7GH	360-532-0157	n7gh@arrl.net	www.gharc.org
			www.ve7bar.org
			www.microhams.com
N7RHW	509-965-6612	n7rhw@arrl.net	www.w7aq.org
			www.commacademy.org
W7RAZ	208-550-7710	w7raz24@gmail.com	www.idahostateconvention.com
			www.emcommwest.org
			www.mrarc.net
			wasarconf2013.org
N7KRE	360-387-7705	nwecop@tgi.net	scarcwa.org/ham_fest.shtm
W7CH	509-687-3919	w7clp@arrl.net	lakechelanradioclub.com
AI9Q	360-892-5580	ai9q@arrl.net	www.seapac.org
W7JBP		shultzjims@aol.com	www.qsl.net/w7td
N7ESU	208-755-2100	n7esu@arrl.net	www.k7id.com
			www.n7pl.org
NB6M		nb6m@comcast.net	
Ray	509-258-7078	cdknray@wildblue.net	
			www.gwhamfest.org
		zane.albertson@gmail.com	
K7OSK		k7osk@boatanchor.com	www.cvars.org
			www.wwdxc.org
			www.nwcitizencorpsexpo.com
			www.eskimo.com/~hhagen/psara
		swapfest@highlinearc.org	highlinearc.org/swapfest.html
		clarkcountyhamfair@w7aia.org	www.w7aia.org
K7FZO		k7fzo@arrl.net	nwaprs.info/sg.htm
N7WRQ		n7wrq@aol.com	spokanehamfest.com
			rac.eton.ca/events/upcoming.php
K7UN		k7un@swaptoberfest.net	www.swaptoberfest.net
			w7gra.org
			www.pacificon.org
			www.pnwvhfs.org
			www.nkarc.org
		scouting.org/jota.aspx	arrl.org/jamboree-on-the-air-jota
WT0F			fwarc.org
			fwarc.org
			www.w7sra.com
N7WA	253-631-3756	n7wa@arrl.net	www.mikeandkey.org

Listings sourced from PNW Hamfair webpage at http://www.n7cfo.com/amradio/hf/hf.htm

Communications Academy

– 2013 –

A Training Workshop for Volunteer Emergency Communicators



April 13-14, 2013
South Seattle Community College
0830—1700 each day

The Communications Academy is open to anyone with an interest in emergency communications, volunteer or professional.

The presentations are designed to promote the development of knowledgeable, skilled emergency communicators who will support their local communities during a disaster or emergency response.

Register online at
http://www.CommAcademy.org

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Emergency Preparedness Groups

WHATCOM COUNTY

Whatcom County ARES
www.whatcom-ares.net

Whatcom Co. Sheriff's Auxiliary Comm. Service
https://sites.google.com/site/wcsoacs-public/home

Whatcom Emergency Communications Group
www.wecg.org

SKAGIT COUNTY

ARES/RACES of Skagit County
www.wastateares.org/skagit/index.htm

Radio Amateurs of Skagit County
http://rasconline.org

SNOHOMISH COUNTY

Snohomish County ACS/ARES
(Snohomish County Dept. of Emergency Management)
Scott Honaker, N7SS, Radio Officer
scott.honaker@co.snohomish.wa.us
425-423-7635

Stanwood area

Stanwood-Camano ARC (ARES)
www.scarcwa.org
W7PIG@arrl.net

Sno-King area

Emergency Services Coordinating Agency (ESCA) RACES
(Mukilteo, Mill Creek, Lynnwood, Edmonds, Woodway, Mountlake Terrace, Brier, Lake Forest Park, Kenmore, Woodinville)
www.esca1.com
Dan Good, Coordinator
dan@esca1.com
425-776-3722

KING COUNTY

ARES/RACES of King County
www.aresofkingcounty.org

Shoreline

Shoreline Auxiliary Communications Service
www.shorelineacs.org

Seattle

Seattle Auxiliary Communications Services
(Seattle Office of Emergency Management)
www.seattleacs.com
Mark Sheppard, N7LYE, Director
mark.sheppard@seattle.gov

Kirkland

Kirkland ARES
www.qsl.net/kares

Bellevue

Eastside Amateur Radio Support
www.ci.bellevue.wa.us/ears.htm
Vernon Owens
VOwens@bellevuewa.gov
425-452-6033

Continued --->

Sammamish

Sammamish ARES/RACES Groupe (SARGe)
Becoming: Sammamish Plateau Amateur Radio Club (SPARC)
www.mysarge.net
http://sp-arc.org/

North Bend

North Bend ARES Team (NBAT)
http://groups.yahoo.com/group/NBAT
Emergency Coordinator and Public Information Officer: Stephen Kangas W9SK
w9sk@arrl.net
425-503-9876

Renton

City of Renton Fire & Emergency Services
425-430-7000

Tukwila

Tukwila Emergency Communication Team (TECTeam)
www.TukwilaRadioClub.org
info@TukwilaRadioClub.org

SeaTac

SeaTac Amateur Radio (STAR)
http://www.freewebs.com/seatacstar
http://groups.yahoo.com/group/SeaTacSTAR/
star.wa@msn.com

Vashon Island

Vashon-Maury Island Radio Club (VMIRC) - ARES
www.w7vmi.org

Kent

Kent Communications Support Team ARC
(Kent Emergency Management)
K7CST@ci.kent.wa.us
253-856-4440

Maple Valley

Maple Valley ARES
www.kc7key.org/ares.html
Scott Currie, NS7C
info@kc7key.org

Auburn

253-876-1909

Federal Way

Federal Way Amateur Radio Club Emergency Communications Response Team
www.fwarc.org/ECRT
Neighborhood Emergency Teams: Jennifer Teeler or Kimberly Paterno
253-835-2652

American Red Cross – King, Kitsap & North Mason Counties
www.redcross.org/wa/seattle
Kevin Kopp, KE7COD
kevin.kopp@seattleredcross.org
206-720-5296 ext. 13624

PIERCE COUNTY

Pierce County ARES/RACES
www.piercecountyares.net
Steve McKeen, District Emergency Coordinator
w7qlo@arrl.net.

THURSTON COUNTY

Thurston County ARES
www.wa7oly.net
Tom Bohon, KE7EJJ
tbohon@centurylink.net

MASON COUNTY

Mason County ARES
swoog@msn.com

KITSAP COUNTY

Kitsap County Department of Emergency Management
Alternate Communications System (ACS)
(including ARES and RACES)
www.facebook.com/Kitsap.County.Alternate.Communications.System
Kitsap_County_ARES_RACES_ACS@hotmail.com

JEFFERSON COUNTY

Jefferson County ARES/RACES
http://olypen.com/gandj/ARES-Site/jeffco-index.html
Gary Fell, KD7MWL
Jefferson County ARES Emergency Coordinator/RACES Radio Officer
kd7mwl@n7pl.org

CLALLAM COUNTY

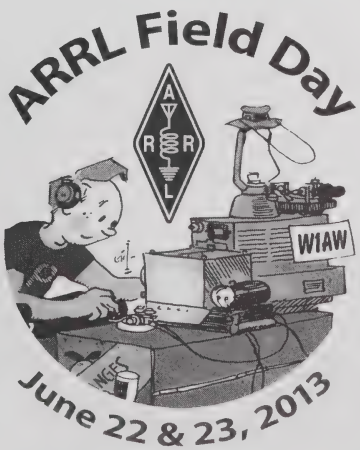
Clallam County ARES/RACES
www.olyham.net/ccares.htm
Al Dawson W7YLV, Emergency Coord.
adawson@tfon.com
360-457-0752

WWA SECTION

Western Washington Medical Services Communications Team
www.ww7mst.org
206-526-1338

Other Emergency Preparedness Websites

FEMA: www.fema.gov
ARRL: www.arrl.org/public-service
www.arrl.org/emergency-communications
ARES: www.arrl.org/ares
RACES: www.qsl.net/races
ARRL WWA Section: www.arrl.org/Groups/view/western-washington
Communications Academy: www.commacademy.org
World Radio Relay League: www.wrrl.org
www.emcomm.org
State of Washington: www.wastateares.org



Federal Way Amateur Radio Club

P.O.Box 23415 Federal Way, WA. 98093 **http://FWARC.Org**

FM Repeaters 146.76-, 147.04+, 442.950+, PL 103.5

DSTAR **146.84- WA7FW_ _C**, and REF035C

443.85+ WA7FW_ _B, **1290.10+, WA7FW_ _A**

DRATS on WA7FW.DSTARgateway.org port 9000

Club Activites for 2013

- Fun Club Programs 2nd Thurs@7pm
- EmComm+ECRT 3rd Thurs@7pm
- Sunday Net on 147.04 @7:30pm
- EmComm Training Classes
- All Licensing Training Classes
- Traveling VE Team FCC Exams
- Contact:**Training@FWARC.Org** Daniel **KL7WM@AOL.Com**
- Club WEB Site http://FWARC.org
- ARRL Field Day Outing on June 22

DSTAR - Workshops in 2013

- Beginning Class#1 Oct-20th
- Beginning Class#2 Oct-27th
- All Day **Workshop Nov-2nd**
- **DSTAR** Meetings 1st Thurs@7pm
- **Sunday** Night Net 146.84 @7pm + **REF035C** & on **DRATS** Data
- **Wednesday** Social Net 146.84@ 8pm also on Reflector REF035C
- Contact:**DSTAR@FWARC.org**

Also See: **http://HamShare.com** for Additional Ham Classes & Training

Tukwila Emergency Communications Team TEC Team

An Emergency Preparedness Club for people who work or live in Tukwila.
See: www.TukwilaRadioClub.org

Club Activites for 2013

- Club meeting is **1st** Wed at 7 PM
- Weekly nets are Sunday@ 6:30PM
- DSTAR Repeater **440.425+** and REF035C
- DSTAR Repeater **440.275+**
- Licensing and upgrade classes
- Emergency Classes
- We are looking for NEW people.
- Send Email To: info@TukwilaRadioClub.org
- Meetings at **Fire Station #51**
- 444 Andover Park East, Tukwila,WA

HamShare.Com

Classes are open to all WA State FCC Licensed Hams and CERT Members, Held Saturdays at the Annex Bldg. in Auburn,WA. Latest Class Information @ http://HamShare.com

Classes & Workshops in 2013

- MESH Networking Workshops
- High Power HF Amps #13506
- NVIS Antenna Class #13525
- Basic Electronics DC #13100
- Basic Electronics AC #13101
- Basic Electronics Amps 13102
- Basic Electronics Rx #13201
- Basic Electronics Tx #13202
- Basic Electronics XCVR 13203
- High Performance Repeaters
- Radio Programming #13535
- Message Handling #13115
- Battery & Solar Power #13125

Contact: **Email.HamShare@Yahoo.com**

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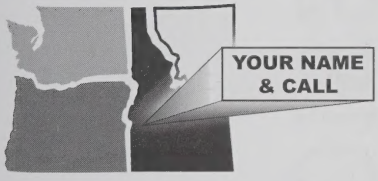
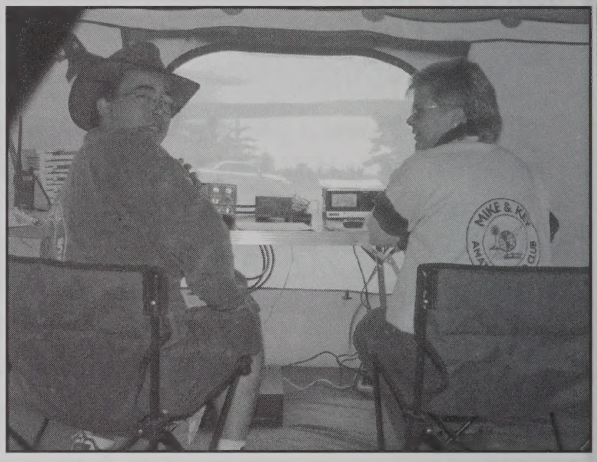


Badges, Desk Plates, License Frames, Etc...

FIELD DAY

If you are new to ham radio, Field Day might not hold much meaning for you. However, to many the mere name starts seasoned Amateurs to thinking towards the annual gathering of hams to open a season of fun challenges, as well as polish up skills needed in the event of an emergency.



Hams and clubs accross the US and Canada approach this simulated emergency set up with all sorts of scenarios from a field of tents housing particular radio frequencies, to tarps over ropes, but all have the necessary wires and antenna arrays needed to make as many contacts as possible during the 24hr period. Of course, all of the necessities for sustenance are a must for a well-stocked station. There will probably even be sleeping bags and some sort of heat to make the long night of operation more tolerable.

For the non-ham friend or family member, this outing presents a time of fun, exploration of the surrounding areas, or just a great time to relax, reading, doing crafts, or sitting by a campfire.

We encourage the curious to come to Ft. Flagler State Park and experience the Mike & Key Club's Field Day operation. For the energetic, even come out on Friday to participate in setup and an evening potluck. For camping, RV's are most handy, but tents, canopies or station wagons will do fine. So be there Saturday morning when the fun begins with "K7LED is now ON THE AIR".

Field Day 2013 is June 22-23. Come out and join us!

73-Ham lingo for Best Regards.
APRS-Automated Positioning and Reporting System.
ARC/ARS-Amateur Radio Club/Society.
ARES-Amateur Radio Emergency Service.
ARRL-The American Radio Relay League. The Amateur's representative and promotional organization.
ATV-Amateur Television (fast scan) A method of exchanging moving pictures over radio waves.
Direction Finding (DF-ing)-A competitive ham radio activity in which ham radio operators track down a transmitted signal.
CW-Continuous Wave, another name for Morse code telegraphy.
DX-Distant contact or rare foreign country.
EME- Earth-Moon-Earth Communication (Moonbounce).
Elmer-An amateur who enjoys helping new hams get started on a one-to-one basis.
Field Day-A popular Amateur Radio activity during which hams set up radio stations outdoors and away from electrical service to simulate the aftermath of a disaster. Field Day takes place the fourth full weekend in June.
HF (High Frequencies)-Radio frequencies from 3 to 30 MHz.
MARS-Military Affiliate Radio System.
MFSK-an easy-to-use chat mode for real-time amateur contacts, nets and bulletin transmissions. It performs well on long-path fading conditions and in the presence of interference.
Net-An on-the-air meeting at a particular time, day, and radio frequency.
OSCAR-Orbiting Satellite Carrying Amateur Radio.
Packet Radio-A system of digital communications whereby information is broken into short bursts.
Public Service-Activities that Hams perform to benefit their communities.
PSK31-"Phase Shift Keying, 31 Baud" a form of modulation that offers a new and higher level of performance in conversational communications.
Q Signals-International abbreviations, such as "QRP", used mainly by CW operators to shorten communications.
QRP-Low power operation.
RACES-Radio Amateur Civil Emergency Services.
Repeater-A two-way radio set that listens on one frequency, then re-transmits what it hears on another.
RTTY-Radio Teletype.
SSTV-Slow Scan TV. A method of exchanging still pictures over radio waves.
Traffic Net-An on the air meeting of amateurs for the purpose of relaying written messages.
Transceiver-A radio transmitter and receiver in one unit.
UHF (Ultra High Frequencies)-Radio frequencies from 300 to 3000 MHz.
VE (Volunteer Examiner)-An amateur who volunteers to conduct amateur radio examinations.
VHF (Very High Frequencies)-Radio frequencies from 30 to 300 MHz.

The Mike & Key Amateur Radio Club

Invites you to our regularly scheduled club meeting on the third Saturday of each month, 10 am, at the

Salvation Army Center
720 South Tobin St., Renton
N47^0 29.03' W122^0 12.46'
1 block north of the Renton Transit Center

The Mike & Key Amateur Radio Club is a full-service amateur radio club, not a repeater club. We appreciate our members' full participation in our committees, events, and club meetings.

To show your support for this publication and our repeater, visit our Electronic Swap Meet. It's every March at the Puyallup Fairgrounds

Mike & Key Club Contacts
e-mail: info@mikeandkey.org
Web: www.mikeandkey.org
Mail: P.O. Box 4234
Renton, WA 98057-4234

This booklet is produced for the Amateur Radio community by the
Mike & Key Amateur Radio Club
Public Service Committee
146.82 MHz & 224.12 MHz
An A.R.R.L. Affiliated Club